

SOLECTEK

Wireless Products

ANT-GRD-24 Installation Guide



Solectek ANT-GRD-24 Installation Guide

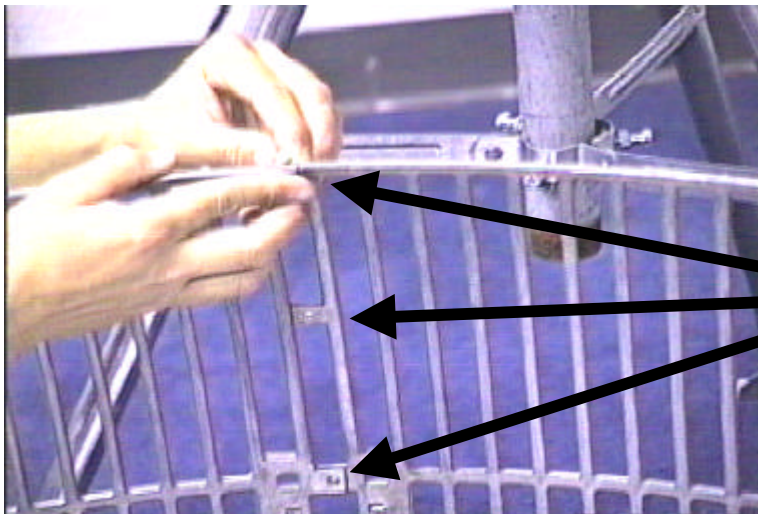
This antenna connects to the ODU (Outdoor Unit) supplied with Solectek MP-Series wireless bridge/routers. Antenna specifications are as follows:

Frequency	2.4000 to 2.4835 GHz
Net Gain	23.3 dBi
3dB beam width	7.5 degrees
Front to back ratio	>31dB
Polarity	Vertical (default) or horizontal, field changeable
Cross polarity rejection	>26dB
VSWR (Average)	1.3:1 @ 2.4000 to 2.4835 GHz
Impedance	50 Ohms
Coaxial pigtail length (to ODU)	36 inches
Wind loading @ 100 MPH	97.0 lbs
Wind loading @ 140 MPH	199.5 lbs
Elevation adjustment	60 degrees
Size	23.5 in x 39.25in x 15 in (60.95 cm x 91.44 x 38.10 cm)
Weight	5.4 lbs (2.43 Kg)
Reflector material	Cast Magnesium Alloy
Mounting hardware	Stainless steel
Mast diameter	1-2 inches (2.54 – 5.08 cm)

This manual provides the installer with a pictorial guide to the proper installation of this antenna. Please consult additional guidelines available from your Solectek Certified Reseller if necessary to ensure that this installation is safe and functions as expected.



Inventory all parts before beginning installation. The reflector assembly is shipped unassembled.

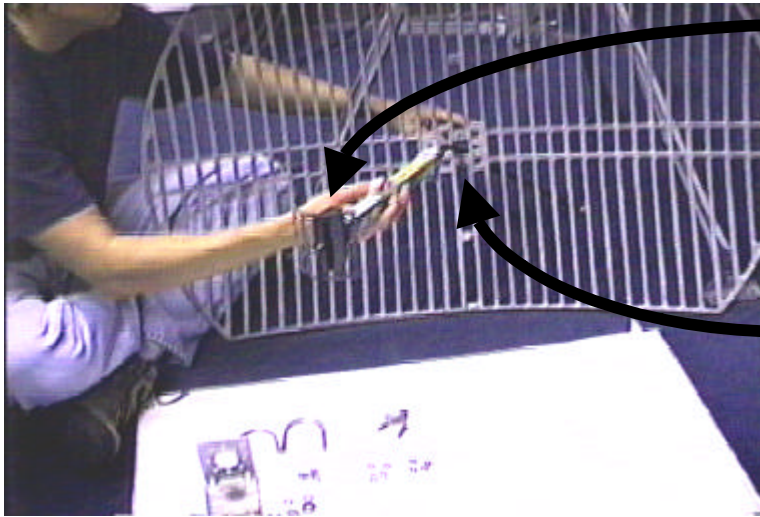


Assemble the two reflector halves by inserting four #8-32 machine screws from front to back. Secure with nuts on the back side of the reflector.

Check alignment here during antenna assembly (on both sides of the antenna reflector)

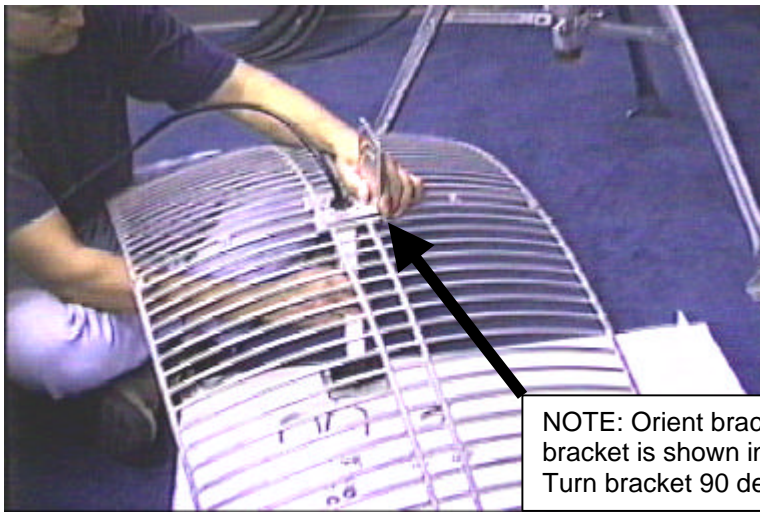


Make sure nuts are secure, but do not tighten until the final step, as the reflector grill may need to be adjusted during installation.



Attach the "sub-reflector" (small reflector on the end of the feed arm) to the feed arm with the small Phillips head screw in the "Sub Reflector Kit".

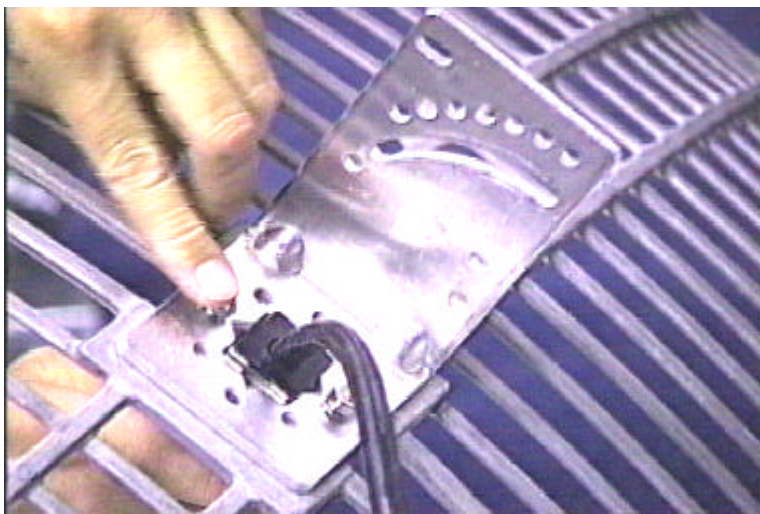
Place the feed arm cable through the hole in the center of the reflector grill. Make sure the slots on the "sub-reflector" are oriented the same way as the slots on the reflector grill.



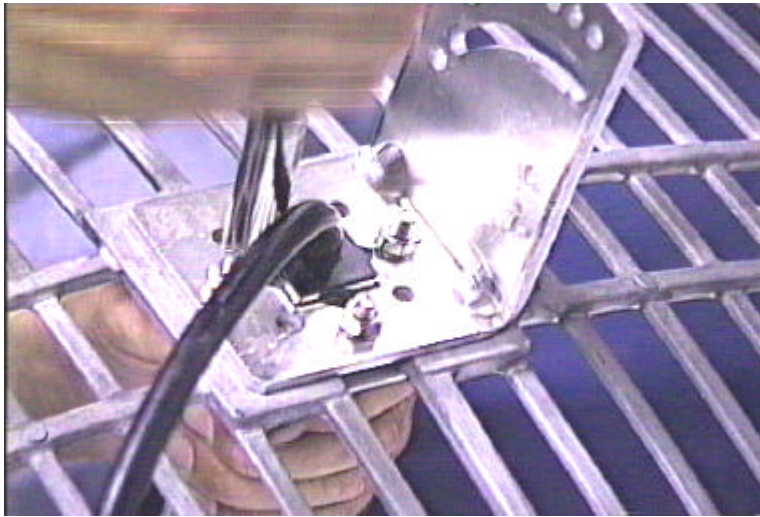
Place the "L" bracket on the back of the antenna and line it up with the feed arm mounting holes

NOTE: Recheck the position of the "sub-reflector" to make sure the slots are oriented the same way as the slots on the reflector grill.

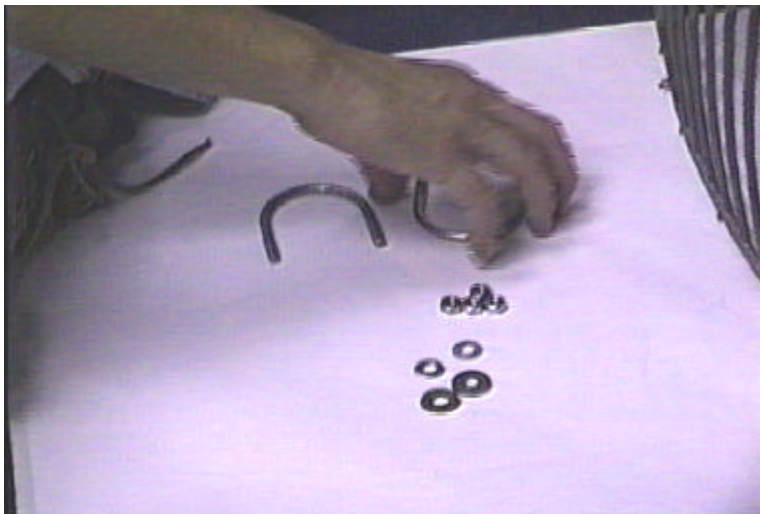
NOTE: Orient bracket for desired polarization. This bracket is shown in the "Horizontal Polarization" position. Turn bracket 90 degrees for vertical polarization.



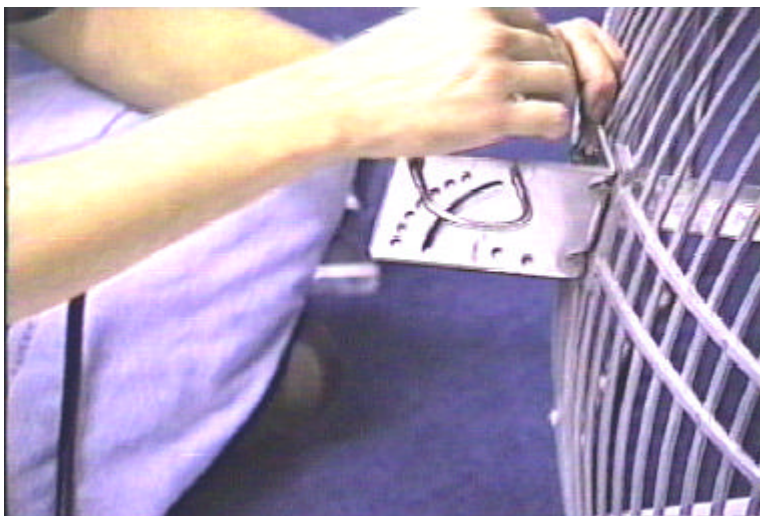
Attach the "L" bracket to the antenna and feed arm using the two carriage bolts from the "Sub Reflector Kit". Secure the bolts with lock washers and nuts.



Tighten the “L” bracket nuts and bolts. Tighten the four nuts and bolts which join the two halves of the reflector grill.



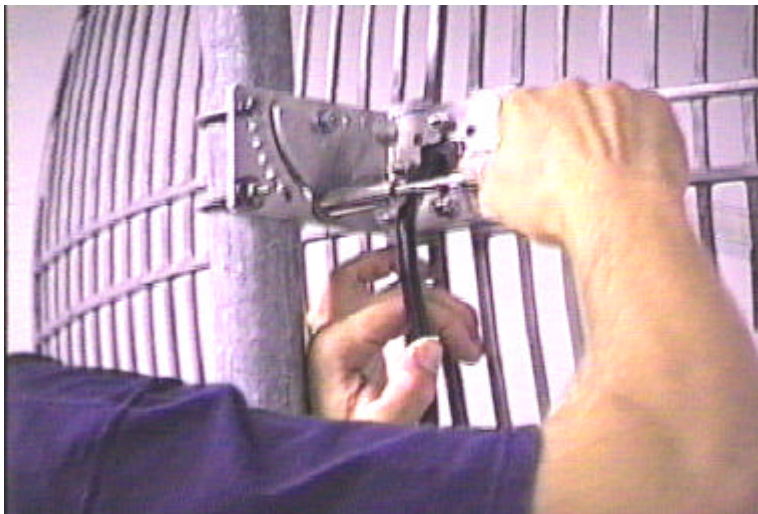
Locate the two “U-bolt” mast clamps, four nuts, and four lock washers



Insert the four “U-bolt” mast clamps into the “L” bracket in preparation for mounting the antenna on the mast.



Slide the antenna assembly and U-bolts over the mast.



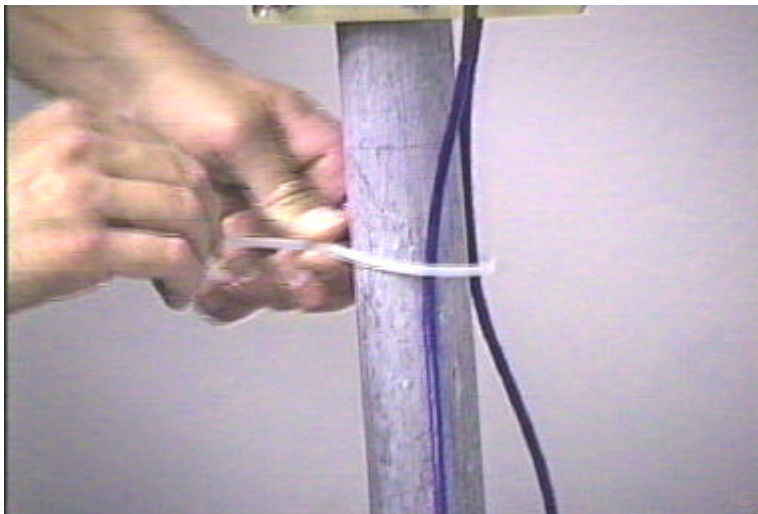
Tighten the U-bolt mast clamps, leaving enough slack to allow the antenna to move on the mast for antenna alignment. When finished aligning the antenna for the maximum radio signal, securely tighten the U-bolts.



The completed ANT-GRD-24. This antenna is oriented vertically, i.e. **vertical polarity**. If horizontal polarity is required, turn the "L" bracket 90 degrees and remount the antenna. The orientation of the slots on the reflector grill determines vertical or horizontal polarity. These slots are vertically oriented.



Carefully screw the end cable into the "Antenna" terminal of the ODU.
NOTE: Seal this terminal with the black sealant material supplied with the antenna. This connector should require only one strip of sealant. Be sure to stretch the sealant material while wrapping it around the connector.



Fasten the antenna to ODU cable to the mast with Ty-Wrap or other fastening material. If the cable is not fastened to the mast, the wind will move the cable and possibly cause damage and interruption to the wireless link.

**** END ****

One Year Limited Warranty

***For products purchased using
Solectek's U.S. & Canada MSRP
Price List and installed in the
United States or Canada.
Effective August 1, 1999***

Subject to the conditions and procedures set forth below during the warranty period, Solectek will repair or replace, at Solectek's option, such Solectek products or parts thereof which, on inspection by Solectek, are found to be covered by the limited warranties set forth below. The warranty period for new hardware products, which are listed on Solectek's U.S. & Canada MSRP Price List at time of purchase, is twelve months from the date of shipment from Solectek. The warranty period for spare parts and R- part numbers is ninety days from the date of shipment from Solectek.

If you think there is a problem or defect with your Solectek hardware product:

- Contact Solectek's Technical Support Department between 8:00 a.m. and 5:00 p.m., Pacific Time at (858) 450-1220, or via fax at (858) 457-2681, or via e-mail at tech@solectek.com. The Solectek Technical Support Representative will discuss your problem to confirm the defect. After business hours, please leave a voicemail or send an e-mail or fax. A Technical Support Representative will respond to you the next business day.
- If warranty or return service is needed, you will receive a Return Material Authorization (RMA) number. At no time should Solectek products be sent back without a valid RMA number. Solectek accepts no responsibility for unauthorized returns.

You agree to pay for shipping to Solectek. If the product is under warranty, Solectek will pay for shipping of the repaired or replacement product to you via ground transportation to your location in the United States. For installations outside the continental U.S., Solectek will pay for shipping via ground transportation to the freight forwarder of your choice located in the continental United States. Any other freight arrangements will be at customer expense.

Solectek shall not be liable for any damage caused to the product in transit. You acknowledge and agree that you will bear all risk of loss or damage to the product while in transit.

Send return shipments to:

Solectek Corporation
6370 Nancy Ridge Drive, Suite 109
San Diego, CA 92121-3212

ATTN: RMA # _____

- Pack products securely, to prevent damage in transit. Be sure the RMA number is clearly visible on the outside of the return shipping carton.
- Returned Solectek products must include all other components from the original package, including the hardware, cables, connectors, software diskettes, and user manual(s) unless otherwise stipulated by Solectek.
- Enclose a copy of the original purchaser's proof of purchase, if needed to support warranty claim. (See details in LIMITATIONS section below.)

After inspecting the failed unit, Solectek will repair or replace materially defective parts or components. All products that are replaced become the property of Solectek. If upon inspection by Solectek, a unit returned under warranty is deemed to be damaged or out of warranty for any reason, (see LIMITATIONS section below), Solectek will contact the customer with a price for the repair or replacement unit. Upon receipt of payment (wire transfer, certified check, credit card, etc.) for the replacement unit plus outbound shipping fees, Solectek will send a repaired or replacement unit to the customer. Customers who do not accept the repair offer may receive their failed equipment back by prepaying an inspection fee of \$300 and the return freight cost.

If upon inspection by Solectek, a unit returned under warranty is found to be defect free, Solectek reserves the right to charge the customer a \$500 test fee.

SOLECTEK'S SOLE AND EXCLUSIVE OBLIGATION, AND YOUR SOLE AND EXCLUSIVE REMEDY, UNDER THIS LIMITED WARRANTY SHALL BE THE REPAIR OR REPLACEMENT OF THE APPLICABLE SOLECTEK PRODUCT IN ACCORDANCE WITH THE TERMS SET FORTH HEREIN.

LIMITATIONS

As the original purchaser, you receive these warranties from Solectek Corporation, subject to the terms and limitations set forth below.

Solectek warrants that your Solectek products will be free from defects in material and workmanship and will perform in substantial compliance with the operator's guide(s) accompanying the products for a period of one year for new hardware products listed on the U.S. & Canada MSRP Price List and ninety days for spare parts and R- part numbers.

Solectek does not cover or accept liability for any injury, damage or failure caused by misuse, misapplication, abuse, acts of nature, accidents (e.g., dropping the Solectek products or software diskettes), electrical mishaps, causes beyond our control, or claims by other than the original purchaser.

Solectek will not honor, and will consider this limited warranty voided, if, in Solectek's reasonable judgment, there has been any (1) tampering with the Solectek product's external label or serial number, (2) attempt to open the Solectek product's case without prior written consent from Solectek, (3) attempted or actual repair by anyone other than an authorized Solectek technician, (4) installation or use with any power supply component(s) other than the original Solectek power supply components provided in the product package, (5) installation or use with any cables or antenna(s) other than original Solectek products, (6) Installation or use in environmental conditions that are outside Solectek's published environmental specifications (including but not limited to temperature range, humidity, cable lengths, proximity to other devices, etc.).

Warranty is given for twelve (12) months from the date of product shipment from Solectek for new hardware products and ninety (90) days for spare parts and R- part numbers. Solectek will honor this warranty upon receiving proof of purchase. "Proof of purchase" is a copy of the original sales transaction, showing complete name and address of seller, complete name and address of purchaser, date of purchase, model number, and serial number.

This warranty is available only to the initial end user purchaser of the product and is not transferable. This warranty is applicable only to products purchased using Solectek's U.S. and Canada MSRP Price List and installed in

the U.S. and Canada. Warranty is void if products purchased using U.S. & Canada MSRP are sold and installed outside of the U.S. & Canada.

DISCLAIMER OF WARRANTIES

EXCEPT AS EXPRESSLY SET FORTH HEREIN, SOLECTEK HEREBY EXPRESSLY DISCLAIMS ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.

WAIVER OF CONSEQUENTIAL DAMAGES

SOLECTEK HEREBY DISCLAIMS ANY AND ALL SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION, LOST PROFITS, LOSS OF OR DAMAGE TO ANY OTHER COMPUTER EQUIPMENT OR RELATED DATA) WHICH MAY RESULT FROM BREACH OF ANY WARRANTY, OR ARISING OUT OF THE USE OR INABILITY TO USE ANY SOLECTEK PRODUCT, EVEN IF SOLECTEK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

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